The HyFlex of Blended Learning:
Popular Frameworks for Powerful Learning

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Indiana University
cjbonk@indiana.edu; http://curtbonk.com/

1

Poll #2: Have you ever taught a blended learning or HyFlex course?

a. Yes many.
b. Yes, just a couple.
c. No, but I taught one or more technology enhanced ones.
d. No but I am willing to try.
e. No and I like it that way.

2

Poll: Have you reflected on your teaching philosophy or learning approach during the pandemic?

a. Yes many times and I am dramatically changing my philosophy statement.
b. Yes many times and I am taking action (meeting people, reading more, attending webinars like this, etc.).
c. Yes, I thought about it a couple of times and I am tweaking it.
d. Not sure. I'm kinda brain dead right now.
e. No, my teaching philosophy is basically the same.

3

Personal Transformations

4

June 17, 2021
How can higher ed move blended learning forward?
Jessca Rowland Williams, eCampus News
https://www.ecampusnews.com/2021/06/17/how-can-higher-ed-move-blended-learning-forward/

5

June 17, 2021
Planning for a Blended Future:
A Research-Driven Guide for Educators
https://www.everylearnereverywhere.org/resources/planning-for-a-blended-future/

6

June 17, 2021
Planning for a Blended Future:
A Research-Driven Guide for Educators
https://www.everylearnereverywhere.org/resources/planning-for-a-blended-future/

7

June 17, 2021
Free Book:
Hybrid-Flexible Course Design
https://edtechbooks.org/hyflex

8

Fall 2021
Hybrid Modality: HyFlex Teaching
https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/
In a HyFlex course, courses are delivered both in person and online at the same time by the same faculty member. For any given class meeting, some students might participate in person, while others might participate at the same time online, made possible by a combination of cameras, microphones, displays, and other technology in the classroom.


9

Fall 2021
Hybrid Modality: HyFlex Teaching
https://instructionalcontinuity.georgetown.edu/pedagogies-and-strategies/hybrid-hyflex-teaching/
HyFlex (a term coined by Brian Beatty) stands for a combination of "hybrid," meaning alternating between face-to-face meetings and remote interactions, and "flexible," meaning students move between these participation options.
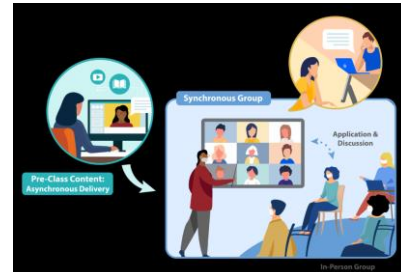
10

11

Clearly...
Learning is Changing!

12

Education 20/20

13

20 New Roles of the Instructor

Captain Course Ambassador Consumer Advocate
Counselor Curator Cook Change Catalyst
Conductor Concierge Comedian
Camping Trip Guide Coach
Consultant Course Expedition Leader Collaborator
Community Organizer Chemist Care Giver
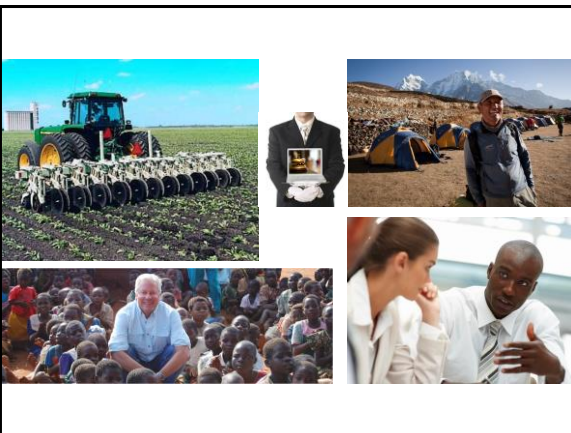Cultivator Colleague
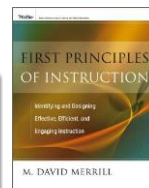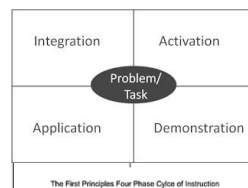
14

Key Role: Instructor as Curator

15

16

17

Merrill's First Principles of Teaching/Instruction

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

Integration	Activation
Problem/Task	
Application	Demonstration

The First Principles Four Phase Cylce of Instruction

FIRST PRINCIPLES OF INSTRUCTION

Identifying and Designing Effective, Efficient, and Engaging Instruction

M. DAVID MERRILL

18

Bonk's Last Principles of Teaching/Instruction (Education 4.0?)
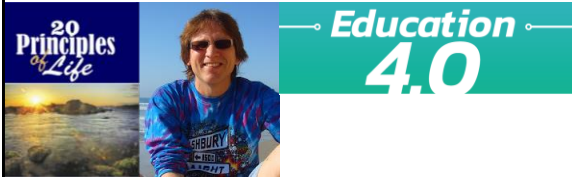
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html
http://www.applicadthai.com/articles/education-4-0/

19

Bonk's 20 "Last" Principles of Instruction (LAST = Learning Activation System Template)

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

Flexibility   Support and Feedback   Choice and Options
Nontraditional Learning
Convenience   Spontaneity   Passion and Inspiration
Collegiality   Organization   Relevance and Meaningfulness
Sharing   Trial and Error (i.e., it is ok to fail)
Cheerfulness and Optimism
High Expectations   Purpose and Vision   Expanded Resources
Human Connectedness   #20 ???
Empowerment and Autonomy   Cognitive Apprenticeship

20

2. The Principle of Convenience

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

21

6. The Principle of Choice and Options

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

22

7. The Principle of Empowerment and Autonomy

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

23

8. The Principle of Support and Feedback

http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

24

9. The Principle of Spontaneity
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

25

10. The Principle of Organization
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html
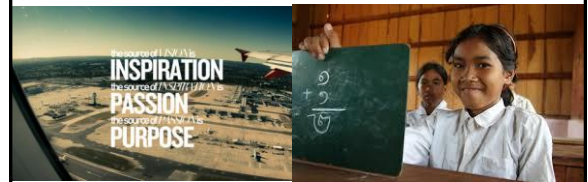
26

11. The Principle of Sharing
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

27

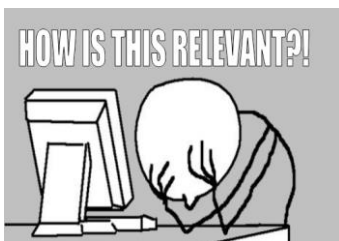## 13. The Principle of Passion and Inspiration
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

28

14. The Principle of Relevance and Meaningfulness
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

29

16. The Principle of Expanded Resources
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html
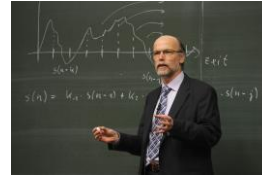
30

**Bonk's 20 "Last" Principles of Instruction
(LAST = Learning Activation System Template)**
http://travelinedman.blogspot.com/2011/05/bonks-last-principles-of-instruction.html

Flexibility
Support and Feedback
Choice and Options
Nontraditional Learning
Passion and Inspiration
Convenience
Spontaneity
Collegiality
Organization
Relevance and Meaningfulness
Sharing
Trial and Error (i.e., it is ok to fail)
Cheerfulness and Optimism
High Expectations
Purpose and Vision
Expanded Resources
Human Connectedness
#20 ???
Empowerment and Autonomy
Cognitive Apprenticeship

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Education 3.0...Education 20/20

"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology."
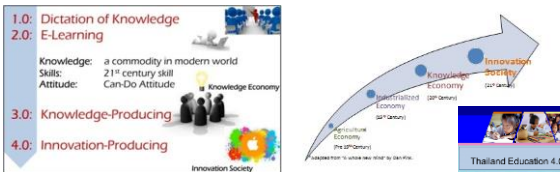(Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0

32

Now What is Education 4.0?
**"Innovation-producing education. Learn more in:
Development of Individual Agency within a Collaborative, Creative Learning Community"**
http://www.igi-global.com/dictionary/education-40/41755
https://thinc.in.th/engadmission/education4.html (Chula Engineering)

1.0: Dictation of Knowledge
2.0: E-Learning
Knowledge: a commodity in modern world
Skills: 21st century skill
Attitude: Can-Do Attitude
3.0: Knowledge-Producing
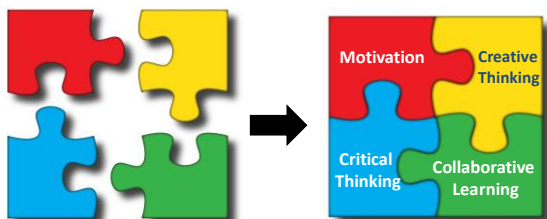4.0: Innovation-Producing
Thailand Education 4.0

33

Poll:
Which topic are you most interested in fostering or learning about?

A. Creative thinking online
B. Critical thinking online
C. Collaborative learning and teamwork online
D. Motivation

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Motivation
Creative Thinking
Critical Thinking
Collaborative Learning

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MOTIVATION
GOAL VISION ADMIRE SUPPORT TEAMWORK MENTOR PERFORMANCE SUCCESS

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Introducing the TEC-VARIETY Framework
http://tec-variety.com/
http://tec-variety.com/TEC-VARIETY-Chinese.pdf

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
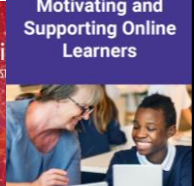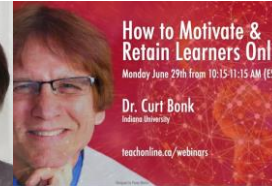**E**ngagement
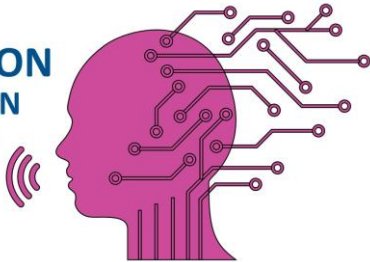**T**ension
Yields Products

37

September 2022
Commonwealth of Learning
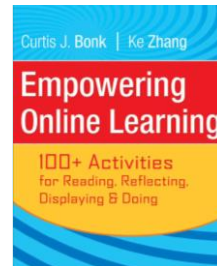Khoo, E., & Bonk, C. J. (2022). *Motivating and Supporting Online Learners*. Burnaby, BC, Canada: Commonwealth of Learning. Free book available: http://hdl.handle.net/11599/4481 and free course available: https://colcommons.org/welcome/coursedetails/8; https://www.colvee.org/

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MOTIVATION

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The R2D2 Model:
Read, Reflect, Display, Do…

40

Question: How can technology address diverse learner needs?

41

The R2D2 Model

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)

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7

1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.

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November 20, 2022
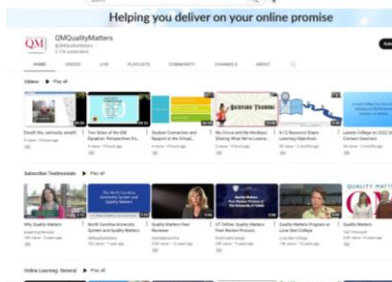10 Educational Podcasts (You Need To Listen To)
https://collegeinfogeek.com/best-podcasts/

44

November 21, 2022
Read 1a. QM Quality Matters
https://www.youtube.com/@QMQualityMatters/featured
https://www.youtube.com/watch?v=ohZWoM44rgg

45

June 15, 2022
Read 1a. Leaders & Legends of Online Learning,
Dr. Mark Nichols' Podcast
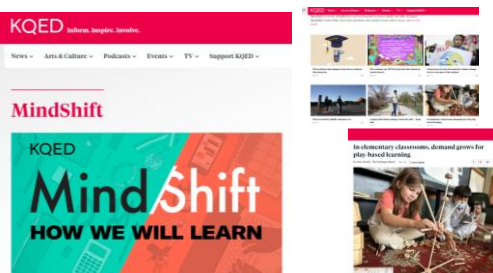https://onlinelearninglegends.com/podcast/062-dr-george-veletsianos/
In this episode, Open Polytechnic of New Zealand Executive Director Dr. Mark Nichols chats with Dr. George Veletsianos, Royal Roads University in Victoria, British Columbia. George talks about his history and research in online education, and his ongoing challenges to the false dichotomy of online and in-person learning.
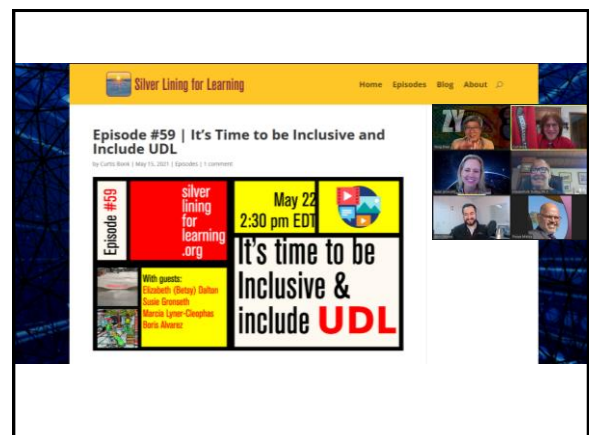

46

November 21, 2022
Read 1a. Mindshift: How we will learn
https://www.kqed.org/mindshift
https://www.kqed.org/mindshift/60255/in-elementary-classrooms-demand-grows-for-play-based-learning

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Pedagogical Uses of Podcasts

1. Replace some course readings.
2. Podcast reenactments.
3. Use of podcasts to back up different sides of debates or to start debates.
4. Remix episodes and explore themes and common issues.
5. Support asynchronous discussion.
6. Add multimedia component to student papers.
7. Interview the podcast hosts and guests.
8. Identify new discoveries and trends in the field.
9. Favorite podcast show competitions.
10. Supplement class lectures or presentations.

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Pedagogical Benefits of Podcasts
(Palenque, 2016, Journal of Instructional Research)

1. Promotes active listening.
2. Expands vocabulary.
3. Support active, social, and creative aspects of learning.
4. Provides opportunities for reflection.
5. Aligns with self-paced and independent learning.
6. Helps chunk learning and connect to what you know.
7. Fosters audience awareness and social cognition
8. Potential for audio feedback to learners.
9. Provides alternative to reading.
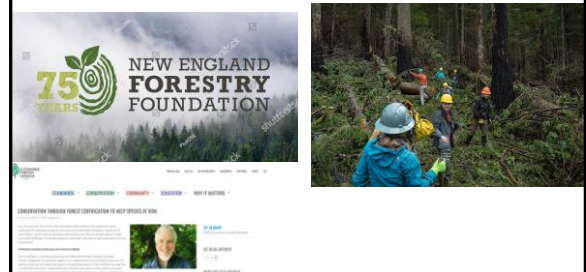10. Fosters planning skills.

50

January 20, 2016
Read 1b. Text to Audio
(e.g., Speechify; https://www.hsalfrank.com/speechify)
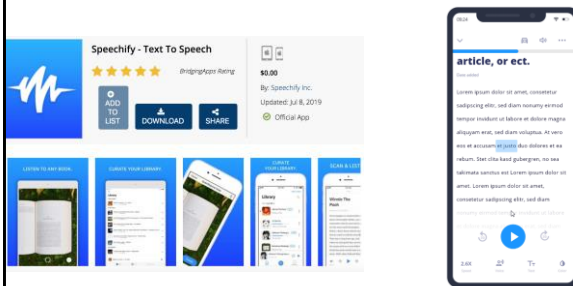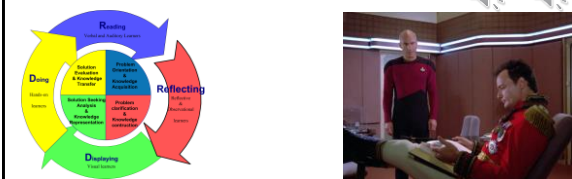

51

March 21, 2020
Read 1c. Read Blogs

52

2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

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Reflect 2a. Big Issue Reflections and What-If Reflections
(Big Questions Online (BQO))
(e.g., Can a Living Creature Be as Big as a Galaxy?)
https://www.bigquestionsonline.com/

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9

Reflect 2b.
Online Role Play or Debate
(e.g., documentary production)

• Controller/Executive Director/CEO/Leader • Connector/Relator/Linker/Synthesizer • Decider/Judge/Settler • Devil's Advocate/Critic/Censor • Reflector/Thinker/Speculator/Observer/Watcher • Warrior/Debater/Arguer/Conqueror/Bloodletter • Idea Squelcher/Biased/Preconceiver • Slacker/Slough/Slug/Surfer Dude	• Artist/Idea Person/Visionary/Muse • Planner/Predictor/Guesser/Flowcharter • Organizer/Starter/Founder/Initiator • Questioner/Ponderer/Protester • Adventurer/Discoverer/Explorer/Traveler • Mediator/Negotiator/Compromiser/Peacemaker • Watchdog/Evaluator/Measurer • Creative Energy/Inventor/Generator/Brainstormer	• Optimist/Open-minded/Idealist • Robotic/Information Dumper/Spock-like • Absent Minded/Stumpler/Dense/Aimless • Coach/Facilitator/Inspirator/Trainer • Guide/Mentor/Teacher/Scaffolder • Humanitarian/Do Gooder/Fund Raiser • Funny/Humorous/Comic/Witty • Advisor/Responder/Helper/Tutor • Worldly/Wiseperson/Sage/Guru/Spiritual Leader

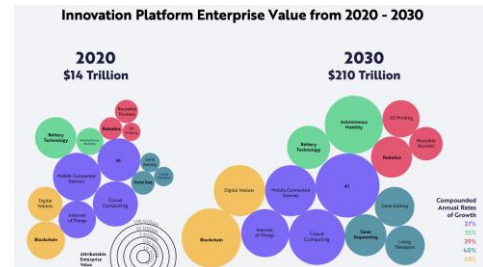**Example 2: Scaffolding…in the form of structuring the online environment and engagement e.g. reflective roles, self-coding, timely-engagement of instructors or otherwise you have "serial monologues."**

55

November 25, 2021
Reflect 2c. Interpreting Interactive Graphs and Infographics
ARK Invest
https://ark-invest.com/articles/portfolio-construction/equity-market-cap-associated-with-innovation/

56

3. Visual Learners

• **Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.**

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March 31, 2022
Display 3a. Short Educational Videos:
Anchored Instruction/Macrocontext
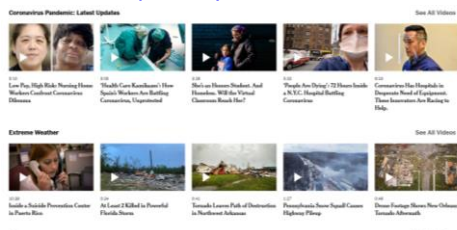**TEDE, BBC News, and New York Times**
https://www.ted.com/ and https://www.youtube.com/c/BBCNews/featured

58

March 31, 2022
New York Times
https://www.nytimes.com/video

59

November 21, 2022
TED Talks Education
https://www.ted.com/about/programs-initiatives/ted-talks-education

60

March 31, 2022
TEDEd
https://www.ted.com/
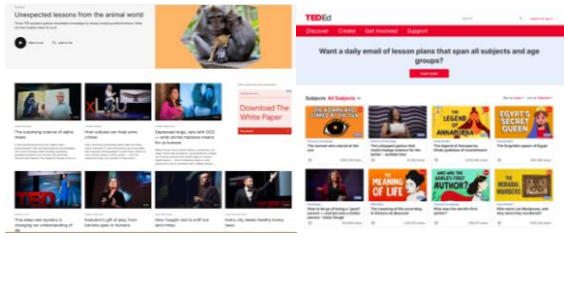
61

November 18, 2022
[뉴스외전 Zoom人] 스탠퍼드대 부학장이 평가하는 한국
교육과 수능 (2022.11.18/뉴스외전/MBC) Paul Kim,
Stanford
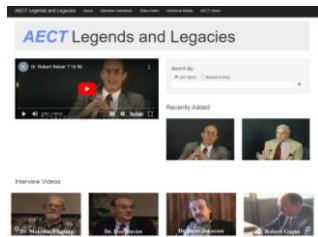https://www.youtube.com/watch?v=p9mygFNixqU

62

AECT Legends and Legacies
http://aectlegends.org/

63

March 29, 2022
R511 Week 11 Questions and Answers With Dr. Thiagi
(1 hour, 15 minutes)
Single Camera View: https://youtu.be/4OGhwJSaFAo
Multiple Camera View: https://youtu.be/EssDmqU030g

64

March 25, 2022
Dr. Shameem Farouk, Malaysia
https://iu.mediaspace.kaltura.com/media/t/1_zwqeanef

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Ten Pedagogical Uses of Shared Online Videos

1. Pause and Reflect
2. Key Concept Reflections
3. Video Anchor or Starter
4. Video Capstone or Ending
5. Online Weekly Content Previews and Discussions

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More Uses of Shared Online Videos

6. Rank or Evaluate Anchor Archives
7. Student Anchor Creator Competitions
8. Concept or Technology Demonstrations
9. Anchor Video Debates
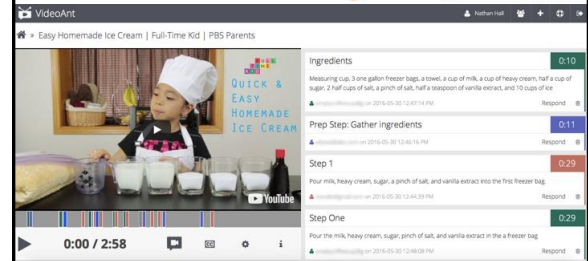10. Anchor Creator Interviews

67

Display 3b.
Video Annotation and Commenting Tools
VideoAnt (Free): https://ant.umn.edu/ (Univ. of Minnesota)
https://www.youtube.com/watch?v=1SOE2aQky2I
Edpuzzle (Free): https://www.youtube.com/watch?v=-L62wAxCzEM

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Display 3c.
Collaborative Web and PDF Annotation Tools
Hyothes.is (Free): https://web.hypothes.is/
Note Anywhere: https://www.youtube.com/watch?v=g4AJeowd4Ho
Adds virtual sticky notes to webpages
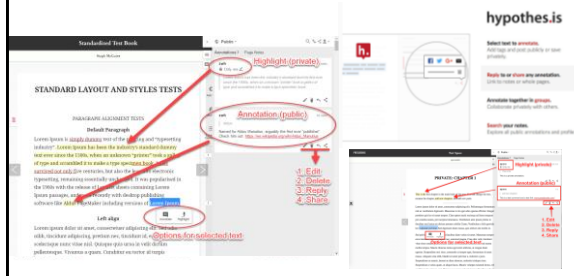
69

April 30, 2020
Display 3d. Word Clouds:
Week 2 and 5 (13 and 14)
https://www.wordclouds.com/
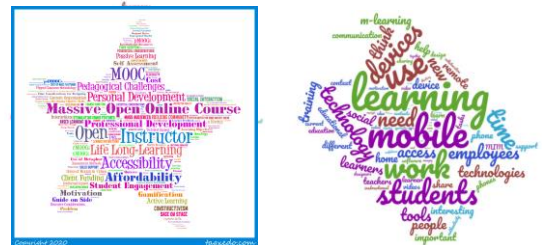
70

4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.
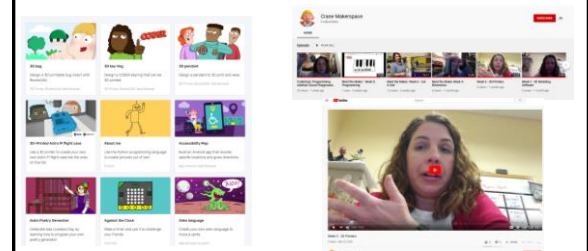

71

April 23, 2020
Do 4a. Demonstration Videos
Crane Makerspace, Tina Closser
https://www.youtube.com/channel/UCbeWfFd9g7pZ0JMBi9TBt5w?view_as=subscriber
https://sites.google.com/view/cranetech/home
https://projects.raspberrypi.org/en/projects

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Slide 73

Poll: Which pedagogical model or framework do you prefer?

a. TEC-VARIETY
b. R2D2
c. Neither
d. Both
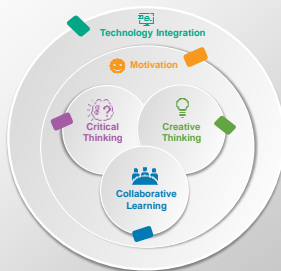e. I will try to create some unique combo of the two.

73

Slide 74

Framework #3
METC³

Educational Technology

Creative Thinking
Critical Thinking
Motivation   Collaboration

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Slide 75

Technology Integration
Motivation
Critical Thinking
Creative Thinking
Collaborative Learning

75

Slide 76

MOTIVATION
MOTIVATION
MOTIVATION

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Slide 77

MOTIVATION

GOAL VISION ADMIRE SUPPORT TEAMWORK MENTOR PERFORMANCE SUCCESS

MOTIVATION
MOTIVATION
MOTIVATION

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Slide 78

September 4, 2021
Ice Breakers in Jamboard

https://jamboard.google.com/d/1NAAPUgs9nd2Zv_VLwjYO5aHeln4kphQ-dbQ5BREDqgc/viewer?f=7
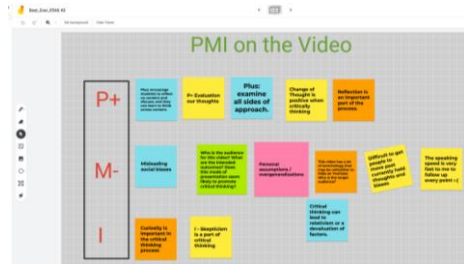
Write down something that epitomizes your personal motto or life theme?

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Poll: How many ideas did you get from this talk now?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.
7. More than 10.

BRAINY IDEAS

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Any Questions or Comments?
Slides at: TrainingShare.com (go to "Archived Talks")
Papers: PublicationShare.com
Free book: http://tec-variety.com/
Free Course: https://colcommons.org/welcome/coursedetails/8
Curtis J. Bonk, IST Professor, Indiana University
Email: cjbonk@indiana.edu; http://curtbonk.com/

Free!   Free!   Free!   Not Free!

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